

# PATENT COOPERATION TREATY

# PCT

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference <b>W 5874-169 LB</b>	<b>FOR FURTHER ACTION</b> <small>see Form PCT/ISA/220 as well as, where applicable, item 5 below.</small>	
International application No. <b>PCT/EP2004/002651</b>	International filing date (day/month/year) <b>15/03/2004</b>	(Earliest) Priority Date (day/month/year) <b>21/03/2003</b>
Applicant  <b>TELEFONAKTIEBOLAGET L M ERICSSON (PUBL)</b>		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 3 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

**1. Basis of the report**

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☐ **Certain claims were found unsearchable** (See Box II).

3. ☐ **Unity of invention is lacking** (see Box III).

4. With regard to the **title**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regards to the **drawings**,

- a. the figure of the **drawings** to be published with the abstract is Figure No. 2

☒ as suggested by the applicant.

☐ as selected by this Authority, because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

- b. ☐ none of the figures is to be published with the abstract.

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP2004/002651

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H04L1/00 H04B17/00 H04B7/005 H04L1/20

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H04L H04B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, INSPEC, COMPENDEX

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2002/110088 A1 (LUNDBY STEIN A ET AL) 15 August 2002 (2002-08-15) cited in the application paragraph '0042! paragraph '0047! -----	1-4, 16-18, 29-32
X	US 6 292 519 B1 (POPOVIC BRANISLAV M) 18 September 2001 (2001-09-18)  claim 1 -----	1-4, 16-18, 29-32
X	EP 0 890 845 A (NIPPON ELECTRIC CO) 13 January 1999 (1999-01-13)  abstract -----	1-4, 16-18, 29-32

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

### \* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*G\* document member of the same patent family

Date of the actual completion of the international search

12 May 2004

Date of mailing of the international search report

21/05/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Koukourlis, S

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2004/002651

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2002110088 A1	15-08-2002	CA 2438440 A1 EP 1360778 A1 NO 20033606 A TW 535371 B WO 02067461 A1	29-08-2002 12-11-2003 13-10-2003 01-06-2003 29-08-2002
US 6292519 B1	18-09-2001	AU 752754 B2 AU 2966599 A CA 2323099 A1 CN 1122377 B EP 1062742 A1 JP 2002507077 T WO 9946869 A1 TW 411672 B	26-09-2002 27-09-1999 16-09-1999 24-09-2003 27-12-2000 05-03-2002 16-09-1999 11-11-2000
EP 0890845 A	13-01-1999	JP 3132427 B2 JP 11032092 A CA 2243133 A1 CA 2413934 A1 DE 69821684 D1 EP 0890845 A2 US 6487174 B1	05-02-2001 02-02-1999 11-01-1999 11-01-1999 25-03-2004 13-01-1999 26-11-2002